

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	32	(question\$6 near10 central) same patient\$1	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 15:47
2	BRS	L2	2	5339821.pn.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 15:30
3	BRS	L3	9	("3566365" "3566370" "3920005" "4449536" "4566461" "4722349" "4782511" "4803625" "4838275").PN.	USPAT	2003/07/24 15:35
4	BRS	L8	2	5377258.pn.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 15:46
5	BRS	L9	24	("3742938" "3808694" "4112425" "4237344" "4328494" "4377214" "4396976" "4602127" "4773492" "4831242" "4835372" "4912552" "4916435" "4922514" "4922520" "4933873" "4952928" "5008835" "5014298" "5018736" "5023901" "5036462" "5068080" "5085527").PN.	USPAT	2003/07/24 15:46

	Type	L #	Hits	Search Text	DBs	Time Stamp
6	BRS	L10	2	3 and (question\$6 same patient\$1)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 15:51
7	BRS	L11	2	3 and ((question\$6 or feedback or survey\$3 or ask\$3 or respond\$3) same patient\$1)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 15:55
8	BRS	L12	4	9 and ((question\$6 or feedback or survey\$3 or ask\$3 or respond\$3) same patient\$1)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:12
9	BRS	L13	22125	((question\$6 or feedback or survey\$3 or ask\$3 or respond\$3) same patient\$1)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:18
10	BRS	L14	3302	13 same monitor\$3	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:18

	Type	L #	Hits	Search Text	DBs	Time Stamp
11	BRS	L15	207	14 same central	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:37
12	BRS	L16	196	15 not 1	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:19
13	BRS	L17	195	16 not 9	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:19
14	BRS	L18	195	17 not 3	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:29
15	BRS	L19	60	"5390238" and (question\$6 or query\$3)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:30

	Type	L #	Hits	Search Text	DBs	Time Stamp
16	BRS	L20	0	5390238.pn. and (question\$6 or query\$3)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:30
17	BRS	L21	1	5390238.pn. and (ask\$3 or respond\$3)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:30
18	BRS	L22	1617	14 and central	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:38
19	BRS	L23	1619	22 not 15	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:38
20	BRS	L24	1410	22 not 15	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:38

	Type	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L25	426	24 and question\$3	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:39
22	BRS	L26	145	24 and query\$3	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:40
23	BRS	L27	0	25 not 24	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:40
24	BRS	L28	353	25 not 26	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/07/24 16:40

2/PD/7 (Item 1 from file: 732)
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VIDEO GAME TAKES ON DIABETES SUPERHERO "CAPTAIN NOVOLIN" OFFERS TREATMENT
TIPS

San Francisco Examiner (EX) - Friday, June 26, 1992
By: Paul Freiburger EXAMINER TECHNOLOGY WRITER
Edition: FOURTH Section: BUSINESS Page: B1
Word Count: 582

TEXT:

Mike Walsh found out he had diabetes when he was 10 years old. In two years he's adjusted, learning to take care of himself while still having fun playing soccer and baseball. Walsh believes a new computer game he has played could help other children who have the disease.

Enter Steve Brown and Captain Novolin. Brown is the 27-year-old founder and president of **Raya Systems**, a Mountain View software firm. After working for several years on software that analyzes blood sugar data for diabetes patients, "I was looking for other things we could do in the field," said Brown.

With the help of a grant from the National Institutes of Health, Brown developed Captain Novolin, possibly the first video game designed to offer instruction on treating an illness.

Last year, when his mom took him to a Diabetes Day convention, Walsh found a booth showing off Captain Novolin. He spent the day playing the game.

"I really liked it," said Walsh. "It was fun and challenging."

Diabetes, which affects about 120,000 children in the United States, is a chronic illness that impairs the body's ability to use food. It's hard for diabetics to cope with necessary changes in their diets as well as the need to closely monitor exercise and medication.

Doctors offer their patients self-management skills but "the benefits of diabetes education can be lost when children become bored with the educational process," said Darrell Wilson, an assistant professor of pediatrics at the Stanford University School of Medicine.

Captain Novolin may help them pay attention. The game's super hero has diabetes and players must manage his illness while fighting off sugary alien invaders like the Cola Creep and Blubberman. The goal is to rescue the mayor, who also has diabetes.

During the course of the game, information on managing diabetes pops up on the screen. Using the information carefully brings additional points. The game occurs over two simulated days divided into stages that reflect a typical diabetes meal plan.

"It reminds you to take shots and to check your blood sugar," said Walsh, a seventh-grader who each day takes six shots, eats six times and checks his blood twice.

Raya Systems has sold 10,000 copies of the game, which runs on the Super Nintendo Entertainment System and IBM PC-compatible computers, to Novo Nordisk Pharmaceuticals Inc. Novo is offering them free to selected institutions, including Shriners Hospital for Crippled Children in San Francisco and Lucile Salter Packard Children's Hospital at Stanford.

"Our aim is to create a learning tool that will be embraced by children. One that will help them learn to care and cope with their diabetes," said Henk Bleeker, president of Novo Nordisk, a supplier of diabetes products and services.

Brown admits that publishing a program like Captain Novolin brings a certain amount of risk. "It's unknown whether this will sell because it's never been done before," he said. But he was encouraged by the response he received when he presented the game at a recent conference of the American Diabetes Association.

Brown, a graduate of Stanford with a degree in physics, said he has a license with Nintendo to develop a line of health-related educational video games.

CAPTION:

COLOR PHOTO 2 EXAMINER / FRAN ORTIZ Steve Brown, founder of **Raya Systems** in Mountain View. The firm developed Captain Novolin, which offers instruction on treating diabetes. PHOTO 2 The game's superhero has diabetes and players fight off surgery invaders like the Cola Creep and Blubberman.

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